

## VGN-TZ195N/XC

## VAIO® TZ Series Notebook PC

Ultra-portable, ultra-sleek, ultra-powerful

#### SLEEK AND ULTRA-PORTABLE DESIGN

Sleek, durable and ultra-portable at 2.65 lbs<sup>15</sup> (with standard battery) and less than 1" thin<sup>3</sup>.



An improved lightweight and especially robust premium carbon-fiber casing provides enhanced durability, lighter weight and a sleek look.



11.1" WXGA widescreen display<sup>12</sup> with XBRITE-HiColor™ LCD technology delivers brilliant colors and razor-sharp detail.



Get up to 4 to 8.5 hours of standard battery life<sup>8</sup> for increased productivity on-the-go.



Includes an elegant leather protection case that matches the sleek look of your TZ notebook.

#### WIRELESS FREEDOM

Integrated wireless Wide Area Network (WAN) technology<sup>17</sup> through Sprint Mobile Broadband service with EVDO Revision A technology for blazing-fast wireless access beyond LAN networks and hotspots.



Next generation 802.11a/b/g/n wireless LAN technology<sup>4</sup> offers a massive boost in wireless connection speed and range.



#### MAXIMUM MOBILE PERFORMANCE

Cutting-edge mobile performance with an Intel® Core™ 2 Duo processor<sup>14</sup> that provides the power of a larger PC in an ultra-portable form factor.



Featuring a Solid State Drive (SSD) for rapid boot-ups, quicker application launches and greater durability.



Advanced DVD±R Double Layer/DVD±RW drive<sup>6</sup> for enhanced storage and multimedia capabilities.



Built-in highly miniaturized MOTION EYE® camera built into the razor-thin LCD panel for video conferencing with colleagues, friends and family<sup>16</sup>.



At 2.65 lbs<sup>15</sup> (with standard battery) with 4.5 to 8.5 hours of standard battery life<sup>8</sup> and premium carbon-fiber casing, the VAIO® TZ notebook is built for ultra-portable performance. And with an 11.1"<sup>12</sup> display with XBRITE-HiColor™ LCD technology, an Intel® Core™ 2 Duo processor<sup>14</sup> and integrated wireless Wide Area Network (WAN)<sup>17</sup> technology, you'll be able to stay connected and productive wherever you find yourself.



XBRITE-HiColor™

G-SENSOR

# VGN-TZ195N/XC

## Specifications

### General

Computer Type: Notebook  
 Type of Use: Ultra Portable  
 Action Buttons: AV Mode (DVD/CD Instant On)  
     Play/Pause, Stop, Rewind, Fast Forward, Eject,  
     Wireless On/Off  
 Pointing Device: Electro-Static touch pad  
 Security: Biometric Fingerprint Sensor  
     Trusted Platform Module (TPM) TCG Ver.1.2  
     compliant

### Hardware

Keyboard: QWERTY (82 keys with 1.7mm stroke  
     and 17mm pitch)  
 Camera: Built-in MOTION EYE® camera and  
     microphone

### Processor

Type: Intel® Core™ 2 Duo Processor U7600  
 Speed: 1.20GHz<sup>1</sup>  
 Front Side Bus Speed: 533MHz  
 L2 Cache: 2MB  
 Technology: Intel® Centrino® Processor  
     Technology<sup>14</sup>

### Memory

Type: DDR2  
 Installed: 2GB (2GBx1)  
 Maximum: 2GB  
 Speed: 533MHz

### Optical Drive #1

DVD+R DL Write: 4x max.  
 DVD+R Write: 8x max.  
 DVD+RW Write: 8x max.  
 DVD-R Write: 8x max.  
 DVD-RW Write: 6x max.  
 CD-R Write: 24x max.  
 CD-RW Write: 16x max.  
 DVD±RW: Yes<sup>6</sup> (DVD±R DL/DVD±RW/DVD-RAM  
     Drive)  
 CD Read: 24x max.  
 DVD Read: 8x max.  
 DVD-RAM Write: 5x max.  
 DVD-R DL Write: 4x max.  
 DVD-RAM Read: 5x max.

### Expansion Slots

Multimedia Card Reader: Memory Stick PRO™  
     (with MagicGate® functionality)  
 Secure Digital Media  
 One ExpressCard® /34 Slot

### Audio

Sound System: Windows® sound system  
     compatible  
 Dolby® Headphone  
 Dolby® Virtual Speaker  
 Built-in stereo speakers

### Display

Screen or Display Technology: WXGA LCD  
 Screen Size: 11.1" Razor-Thin Panel<sup>12</sup>  
     LED backlight for brilliant colors and clarity  
 Resolution: 1366x768  
 XBRITE-HiColor™ Technology: Yes

### Graphics

Processor: Intel® Graphics Media Accelerator 950  
 Video RAM: 256MB Total Available Graphics  
     Memory<sup>13</sup>  
 Chipset: Intel® 945GMS

Interface: VGA out w/ Smart Display Sensor

### Inputs and Outputs

Ethernet Port: 1  
 Headphone Jack: 1  
 i.LINK® Interface: 1 (4-pin) interface<sup>7</sup> (IEEE 1394)  
 Memory Stick® Media Slot: 1  
 Modem Jack: 1  
 Secure Digital Slot: 1  
 Microphone Input: 1  
 Port Replicator Connector(s): 1 (Bottom)  
 USB Port(s): 2 (2.0 compliant)  
 VGA Output(s): 1  
 DC-In: 1

### Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)  
 Ethernet Speed: 10Base-T/100Base-TX/1000Base-T  
 Modem Type: Integrated V.92/V.90 modem (RJ-  
     11)  
 Wireless LAN: Intel® PRO/Wireless 4965AGN  
     Network Connection (802.11a/b/g/n)<sup>4</sup>  
 Wireless WAN: Sprint® Mobile Broadband  
     service<sup>17</sup>  
 Bluetooth® Technology: Integrated Bluetooth®  
     Technology<sup>5</sup>

### Power

Battery Type: Standard Capacity Lithium-ion  
     Battery (VGP-BPL11)  
 Estimated Battery Life: 4.0-8.5 hours<sup>8</sup> (Standard  
     Capacity Battery)  
     7.0-13.0 hours<sup>8</sup> (Large Capacity Battery)  
 Power Requirements: 68W+10%

### Software

Operating System: Windows Vista® Business  
 Internet Services: AOL® 90-Day Risk Free Trial - New  
     Users Only  
 Anti-Virus and Recovery Software: Norton 360™  
     All-In-One Security 60-day Trial  
 Supplied Software: Microsoft® Works SE 9.0 w/  
     60-Day Trial Version of Microsoft® Office Small  
     Business 2007<sup>11</sup>  
 Sony® Original Software: Click to DVD® - DVD  
     Creation, SmartWi™ Technology,  
     LocationFree® Player.  
     \*Please access VAIO® Help and Support from  
     your PC for a complete list of software and trial  
     applications.

### Service and Warranty Information

Limited Warranty: 1 Year<sup>9</sup>  
 Telephone Support: 1 year (toll-free assistance,  
     available 24-hours, 7-days-a-week)<sup>10</sup>  
 Online and Email Support: Support available  
     from <http://www.esupport.sony.com/EN/VAIO>

### Dimensions

Weight: 2.65 lbs<sup>15</sup> with standard battery  
 Measurements: 10.9"(W) 0.8" - 1.17"(H) 7.8"(D)<sup>15</sup>

### Supplied Accessories

Standard Capacity Lithium-ion Battery (VGP-  
     BPL11)  
 AC Adapter (VGP-AC16V13)  
 Power Cord  
 Leather Carrying Case (VGP-CKT22/B)  
 Cleaning cloth

### Optional Accessories

Port Replicator (VGP-PR1Z1)  
 Large Capacity Battery (VGP-BPX11)  
 Additional standard battery (VGP-BPL11)  
 Stick AC Adapter (VGP-AC16V10)  
 Additional AC adapter(VGP-AC16V13)

## VAIO® TZ Series Notebook PC

Bluetooth® Presentation Controller (VGP-BRMP10)  
 Privacy Filter (VGP-FL13)  
 Bluetooth® Laser Mouse (VGP-BMS33/B)  
 USB Portable Speaker (VGP-USP1)  
 Leather Notebook Cover (VGP-CVT1/T)  
 100GB Portable Hard Drive with Wireless Security  
     (VGP-UHDM10/B)

Color: Premium Black Carbon Fiber  
 UPC Code: 027242243378

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.

2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.

3. Measured at its narrowest point.

4. Requires a compatible 802.11a or 802.11b or 802.11g or 802.11n access point. Some functionality may require Internet services, which may require a fee.

5. Interoperability among Bluetooth devices varies.

6. DVD Media/Formats are not universally compatible.

7. i.LINK is a trademark of Sony used only to designate products containing an IEEE 1394 connector. All products with i.LINK connector may not communicate with each other.

8. Actual battery life may vary upon usage patterns, product settings, battery and environmental conditions. Upper battery range tested using device for music play-back. Battery life will be shorter when using the Instant Mode features.

9. See actual Limited Warranty for details. For a copy of Sony's warranty, please visit [www.esupport.sony.com](http://www.esupport.sony.com), call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.

10. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.

11. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet. Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.

12. Viewable area measured diagonally.

13. Total Available Graphics Memory refers to the new Windows Vista classification of graphics memory, which is the Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition and system memory size.

14. VAIO TZ uses Mobile Intel® 945GMS Express Chipsets

15. Non-metric weights and measures are approximate and may vary.

16. Internet connection required. Some features may rely on internet service which may require a fee.

17. Subscription with Sprint® Mobile Broadband high-speed EVDO service required. See [www.sony.com/sprint](http://www.sony.com/sprint) for complete offer details, price plans, service terms and conditions, and coverage map. Click the Sprint icon on your BX Series desktop or call 1-877-275-VAIO (8246) for service activation.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice.

Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance ([www.eiae.org](http://www.eiae.org)).

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